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**Patent and Trademark Office**

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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. |
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09/260,794    03/01/99    ONDRICEK

D    03401.P090

EXAMINER

MM91/1003

FORMFACTOR, INC.  
LEGAL DEPARTMENT  
5666 LA RIBERA STREET  
LIVERMORE CA 94550

BREWSTER, M

ART UNIT

PAPER NUMBER

2823

DATE MAILED:

10/03/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

**Office Action Summary**

Application No.

09/260,794

Applicant(s)

ONDRICEK ET AL.

Examiner

William M. Brewster

Art Unit

2823

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 April 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-65 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-65 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-4, 6-13, 17-19, 23-28, 33-36, 28-44, 49-51, 55-60, 65 are rejected under 35 U.S.C. 102(e) as being anticipated by Farnworth et al., U.S. Patent No. 6,219,908.

Farnworth anticipates, in figs. 1-3, a method for processing an integrated circuit 94, said method comprising: applying an identification code once chip is secured, through a hole in the carrier, storing the results of a burn-in test, col. 2, lines 60-67, to a carrier; depositing a singulated die into said carrier 95, said carrier holding said singulated die, col. 5, lines 8-20, with or without packaging of die col. 2, lines 1-5, figs. 4, 4A plurality of contact pads 118, mounting carrier on substrate 95, which may be a test printed circuit board, in fig. 3, 3A, with a top over the die 102, and at any given time, removing die and reusing test board.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 14, 20, 21, 22, 29, 30 -32, 46-47, 52-54, 61-64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al., U.S. Patent No. 6,184,699 B1.

Farnworth does not specify the identification code holding more than if the die is good or bad, but codes can hold more. Presented, as evidence of this is Beffa, U.S. Patent No. 6,147,316 who specifies the die ID storing wafer and lot information, in Abstract.

Farnworth does not specify that his contacts are resilient, but Smith does. Smith in fig. 6, forms spring contacts 11 contacting die 3 resisting variable pressure, col. 4, lines 39 - 55. Smith gives motivation in col. 4, lines 39-55. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to recognize that combining Smith's process with Farnworth's invention would have been beneficial because it eliminates the need for uniform contact pressure.

Claims 5, 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Farnworth in view of Kummeth et al., U.S. Patent No. 6,264,533 B1.

Farnworth does not specify using a magnetic media for the label, but Kummeth does in the Abstract. One of ordinary skill in the art would employ the well-known

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process of Kummeth for its intended purpose of using a magnetic label to achieve the equivalent feature of an optical label of Farnworth. Kummeth demonstrates that a) there is an alternative process, b) it can be used to achieve the same results, and c) it has been used by those skilled in the art. For more information on equivalent processes, see MPEP §2144.06.

Claims 16, 45, 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Farnworth in view of O'Connor et al., U.S. Patent No. 5,131,535.

Farnworth does not specify using multiple chips in the carrier, but O'Connor does. O'Connor teaches in fig. 1, labeling carrier with an identification code 8, in fig. 1 securing a plurality of die 32 to carrier. O'Connor gives motivation in col. 1, lines 43-56. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to recognize that combining O'Connor's process with Farnworth's invention would have been beneficial because it reduces labor time.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William M. Brewster whose telephone number is 703-305-5906. The examiner can normally be reached on Full Time.

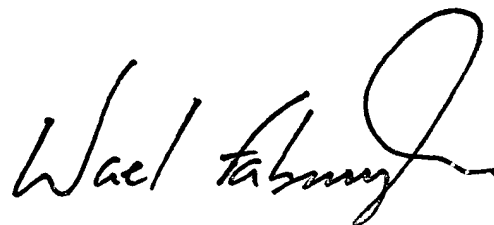
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 703-308-4918. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3432 for regular communications and 703-305-3432 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

WB

30 September 2001

A handwritten signature in black ink, appearing to read "Wael Tabany". The signature is fluid and cursive, with a large loop at the end.

SUPERVISORY PRIMARY EXAMINER  
TECHNOLOGY CENTER